Atty Docket 60,426-258

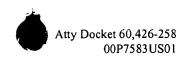
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CLAIMS

What is claimed is:

- A noise attenuation system comprising: 1.
 - a speaker;
- 5 a control unit in communication with said speaker; and
 - a memory unit in communication with said control unit storing cancellation waveform data related to a system condition.
- 2. The active noise attenuation system of claim 1 wherein said system condition 10 is engine data.
 - The active noise attenuation system of claim 2 wherein said engine data is 3. engine speed.
- 15 The active noise attenuation system of claim 1 further including at least one 4. sensor in communication with said control unit.
 - 5. The active noise attenuation system of claim 4 wherein said sensor is a tachometer.
 - 6. The active noise attenuation system of claim 4 wherein said sensor is a throttle position sensor!
- 7. The active noise attenuation system of claim 4 wherein said sensor is an 25 environmental sensor.
 - 8. The active noise attenuation system of claim 1 wherein said speaker is disposed as part of an air induction system.

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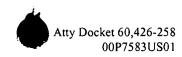


- 9. An air induction system comprising:
 - an air duct body having a speaker;
 - a control unit in communication with said speaker;
- a memory unit in communication with said control unit storing cancellation
 waveform data wherein said cancellation waveform data comprises at least one
 - cancellation waveform related with engine data.
 - 10. The active noise attenuation system of claim 9 wherein said engine data relates to engine speed.

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- 11. The active noise attenuation system of claim 9 further including at least one sensor in communication with said control unit.
- 12. The active noise attenuation system of claim 11 wherein said sensor is a tachometer.
 - 13. The active noise attenuation system of claim 11 wherein said sensor is a throttle position sensor!
- 20 14. The active noise attenuation system of claim 11 wherein said sensor is an environmental sensor.
 - 15. The active noise attenuation system of claim 11 wherein said speaker is disposed about an air induction system.

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- 16. A method of attenuating noise comprising the steps of:
 storing in memory at least one cancellation waveform;
 retrieving the sancellation waveform needed to attenuate a noise based upon a sensed engine condition; and
- 5 attenuating the noise using the cancellation waveform.
 - 17. The method of claim 16 wherein the noise relates to engine noise.
- 18. The method of claim 16 wherein the at least one cancellation waveform is related with engine speed and is retrieved and used to attenuate the noise.
 - 19. The method of claim 16 wherein the noise is attenuated about air induction system.
- 15 20. The method of claim 16 further comprising the step of scaling the cancellation waveform.

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